

# "EAST" SEARCH HISTORY

10/614,871

(INCLUDING INTERFERENCE SEARCH IN USPG-PUB)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1	("5817829").PN.	USPAT	OR	OFF	2005/12/01 09:46
L2	3068	548/263.2 or 548/264.4 or 548/264.6 or 546/195 or 546/196 or 546/198 or 546/199 or 546/211 or 544/140	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/12/01 09:47
L3	488	12 and (sulfonamide or sulfonamido or sulfamoyl or sulfamide or sulfamido)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/12/01 09:52
L4	41	13 and (1,2,4-triazole)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/12/01 09:52

## STN SEARCH TRANSCRIPT

10/614,871

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPAL623ZCT

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR 7):2

\*\*\*\*\* Welcome to STN International \*\*\*\*\*

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America  
NEWS 2 "Ask CAS" for self-help around the clock  
NEWS 3 SEP 09 ACD predicted properties enhanced in REGISTRY/ZREGISTRY  
NEWS 4 OCT 03 MATHDI removed from STN  
NEWS 5 OCT 04 CA/Caplus-Canadian Intellectual Property Office (CIPO) added to core patent offices  
NEWS 6 OCT 13 New CAS Information Use Policies Effective October 17, 2005  
NEWS 7 OCT 17 STN(R) AnaVist(TM), Version 1.01, allows the export/download of Caplus documents for use in third-party analysis and visualization tools  
NEWS 8 OCT 27 Free KWIC format extended in full-text databases  
NEWS 9 OCT 27 DIOGENES content streamlined  
NEWS 10 OCT 27 SPFULL enhanced with additional content  
NEWS 11 NOV 14 CA/Caplus - Expanded coverage of German academic research  
NEWS 12 NOV 30 REGISTRY/ZREGISTRY on STN(R) enhanced with experimental spectral property data

NEWS EXPRESS NOVEMBER 18 CURRENT VERSION FOR WINDOWS IS V8.01, CURRENT MACINTOSH VERSION IS V8.0c(ENG) AND V8.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 13 JUNE 2005. V8.0 USERS CAN OBTAIN THE UPGRADE TO V8.01 AT <http://download.cas.org/express/v8.0-Discover/>

NEWS HOURS STN Operating Hours Plus Help Desk Availability  
NEWS INTER General Interest Information  
NEWS LOGIN Welcome Banner and News Items  
NEWS PHONE Direct Dial and Telecommunication Network Access to STN  
NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

All use of STN is subject to the provisions of the STN Customer agreement. Please note that this agreement limits use to scientific research. Use for software development or design or implementation of commercial gateways or other similar uses is prohibited and may result in loss of user privileges and other penalties.

\*\*\*\*\* STN Columbus \*\*\*\*\*

FILE 'HOME' ENTERED AT 10:54:51 ON 01 DEC 2005

FILE REQ	SINCE FILE	TOTAL
COST IN U.S. DOLLARS	ENTRY	SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 10:55:38 ON 01 DEC 2005  
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

1-2 1-5 2-3 3-4 4-5  
exact/norm bonds :  
1-2 1-5 1-6 2-3 3-4 3-13 4-5 6-7 6-8 6-9 9-10 9-11 13-15 13-16  
isolated ring systems :  
containing 1 :

G1:C,S

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:CLASS 7:CLASS 8:CLASS 9:CLASS  
10:CLASS 11:CLASS 13:CLASS 15:CLASS 16:Atom

Generic attributes :

16:  
Saturation : Unsaturated

L1 STRUCTURE UPLOADED

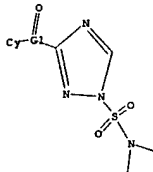
&gt;&gt; que L1

L2 QUE L1

&gt;&gt; D L2

L2 HAS NO ANSWERS

L1 STR



G1 C,S

Structure attributes must be viewed using STN Express query preparation.  
L2 QUE ABB-ON PLU-ON L1

>> # 11  
SAMPLE SEARCH INITIATED 10:58:53 FILE 'REGISTRY'  
SAMPLE SCREEN SEARCH COMPLETED - 21 TO ITERATE

100.0% PROCESSED 21 ITERATIONS 20 ANSWERS  
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:	ONLINE	**COMPLETE**
	BATCH	**COMPLETE**
PROJECTED ITERATIONS:	146 TO	694
PROJECTED ANSWERS:	132 TO	668

L3 20 SEA SSS SAM L1

PLEASE SEE "HELP USAGTERMS" FOR DETAILS.  
COPYRIGHT (C) 2005 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 29 NOV 2005 HIGHEST RN 868943-57-1  
DICTIONARY FILE UPDATES: 29 NOV 2005 HIGHEST RN 868943-57-1

New CAS Information Use Policies, enter HELP USAGTERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

\*\*\*\*\*  
\* The CA roles and document type information have been removed from \*  
\* the IDE default display format and the ED field has been added, \*  
\* effective March 20, 2005. A new display format, IDERL, is now \*  
\* available and contains the CA role and document type information. \*  
\*\*\*\*\*

Structure search iteration limits have been increased. See HELP SLIMITS for details.

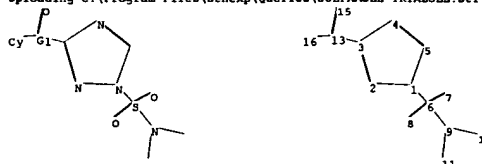
REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regpropa.html>

&gt;&gt; ....Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END):end

&gt;&gt; Uploading C:\Program Files\Stnexp\Queries\SULFAMOLE TRIAZOLE.str



chain nodes :  
6 7 8 9 13 15 16  
ring nodes :  
1 2 3 4 5  
ring/chain nodes :  
10 11  
chain bonds :  
1-6 3-13 6-7 6-8 6-9 9-10 9-11 13-15 13-16  
ring bonds :

>> # 11 \*\*\* full  
FULL SEARCH INITIATED 10:59:04 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 338 TO ITERATE

100.0% PROCESSED 338 ITERATIONS 295 ANSWERS  
SEARCH TIME: 00.00.01

L4 295 SEA SSS FUL L1

&gt;&gt; file caplus

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
FULL ESTIMATED COST	ENTRY	SESSION
	163.48	163.69

FILE 'CAPLUS' ENTERED AT 10:59:09 ON 01 DEC 2005  
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.  
PLEASE SEE "HELP USAGTERMS" FOR DETAILS.  
COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY (ACS)

Copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December 16, 1996), unless otherwise indicated in the original publications. The CA Lexicon is the copyrighted intellectual property of the American Chemical Society and is provided to assist you in searching databases on STN. Any dissemination, distribution, copying, or storing of this information, without the prior written consent of CAS, is strictly prohibited.

FILE COVERS 1907 - 1 Dec 2005 VOL 143 ISS 23  
FILE LAST UPDATED: 30 Nov 2005 (20051130/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

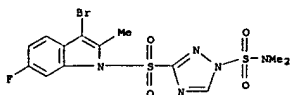
<http://www.cas.org/infopolicy.html>>> # 14  
L5 19 L4

>> # 14/prep  
19 L4  
3391541 PREP/RL  
L6 12 L4/PREP  
(L4 (L) PREP/RL)

&gt;&gt; d 1-12 ibib abs hitstr

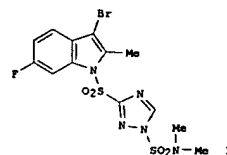
L6 ANSWER 1 OF 12 CAPLUS COPYRIGHT 2005 ACS on STN  
ACCESSION NUMBER: 2005:405059 CAPLUS  
DOCUMENT NUMBER: 142:425149  
TITLE: Storage-stable agrochemical compositions, especially aqueous suspensions, containing crystals of 1-(N,N-dimethylsulfamoyl)-3-(2-methyl-3-bromo-6-fluoroindol-1-yl)sulfonyl-1,2,4-triazole  
INVENTOR(S): Furusawa, Hiroyuki  
PATENT ASSIGNEE(S): Nissen Chemical Industries, Ltd., Japan  
SOURCE: Jpn. Kokai Tokkyo Koho, 14 pp.  
CODEN: JKXJAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE  
 JP 2005119975 A2 20050512 JP 2003-353394 20031014  
 PRIORITY APPLN. INFO.: JP 2003-353394 20031014  
 AB Comps., useful for plant pest control, contain crystals of the title compound (I) which has peaks at 2.0, 8.08, 14.68, 16.20, 18.74, 21.06, 24.76, and 26.44 in powder X-ray diffraction, and optionally surfactants. Also claimed are aqueous suspensions containing I having the above X-ray diffraction peaks, surfactants, and H<sub>2</sub>O. Thus, I was dissolved in EtOH at 80° and cooled to 5° over 10 min, and the precipitated crystals were rinsed with cold EtOH and vacuum-dried to give high-melting crystals having endothermic peak at 131.3° and the claimed diffraction peaks. An aqueous suspension containing I and a mixture of polyoxyethylene styrylphenyl ether and polyoxyethylene-polyoxypropylene block polymer was stored at 40° for 30 days to show change of the particle size from 2.3 to 3.5 μm, vs. 2.8 to 11.6 μm for a control aqueous suspension containing I showing endothermic peak at 125.4°, prepared by gradually cooling an EtOH solution of I.  
 IT 348635-87-OP  
 RL: AGR (Agricultural use); PUR (Purification or recovery); BIOL (Biological study); PREP (Preparation); USES (Uses) (storage-stable agrochem. compns., especially aqueous suspensions, containing crystals of (dimethylsulfonyl)(methylbromofluorindolyl)sulfonyl)triazole as plant pest control agent)  
 RN 348635-87-0 CAPLUS  
 CN 1H-1,2,4-Triazole-1-sulfonamide, 3-[(3-bromo-6-fluoro-2-methyl-1H-indol-1-yl)sulfonyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)

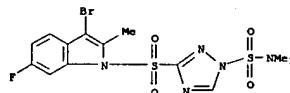


L6 ANSWER 2 OF 12 CAPLUS COPYRIGHT 2005 ACS ON STN  
 ACCESSION NUMBER: 2005:368142 CAPLUS  
 DOCUMENT NUMBER: 142:406004  
 TITLE: Production of indole compound with variable crystal structures  
 INVENTOR(S): Shirai, Yasuo; Tanaka, Norio  
 PATENT ASSIGNEE(S): Nissan Chemical Industries, Ltd., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 11 pp.  
 CODEN: JKKXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE  
 JP 2005112738 A2 20050428 JP 2003-345797 20031003  
 PRIORITY APPLN. INFO.: JP 2003-345797 20031003  
 GI



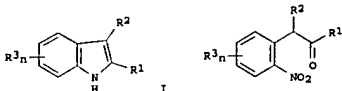
AB 1-[(N,N-dimethylsulfonyl)-3-(3-bromo-6-fluoro-2-methyl-indol-1-yl)sulfonyl]-1,2,4-triazole (I) of crystals with high m.p. and those with low m.p. are prepared while the crystals are pulverized under different pressure levels, and at different temps. The variable crystals are also made from solns. containing this compound by altering the rate of cooling and of condensation during the crystallization, by controlling the crystallized structure.  
 High m.p. crystals are obtained from solns. with an inadequate solvent.  
 IT 348635-87-OP  
 RL: SPN (Synthetic preparation); PREP (Preparation) (conditions for producing with variable crystal structures)  
 RN 348635-87-0 CAPLUS  
 CN 1H-1,2,4-Triazole-1-sulfonamide, 3-[(3-bromo-6-fluoro-2-methyl-1H-indol-1-yl)sulfonyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



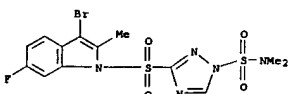
L6 ANSWER 3 OF 12 CAPLUS COPYRIGHT 2005 ACS ON STN  
 ACCESSION NUMBER: 2003:756696 CAPLUS  
 DOCUMENT NUMBER: 139:276817  
 TITLE: Preparation of indole derivatives as intermediates for fungicides  
 INVENTOR(S): Fukuda, Kenzo; Kondo, Yasuo; Tanaka, Norio; Irimata, Atsushi; Utsunomiya, Tomohisa; Shirai, Yasuo  
 PATENT ASSIGNEE(S): Nissan Chemical Industries, Ltd., Japan  
 SOURCE: PCT Int. Appl., 45 pp.  
 CODEN: PIXX22  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE  
 WO 2003082860 A1 20031009 WO 2003-JP3963 20030328  
 N: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IL, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, GM, ML, MR, NE, SN, TD, TO  
 JP 2004083559 A2 20040318 JP 2003-95695 20030331  
 PRIORITY APPLN. INFO.: JP 2002-98813 A 20020401  
 JP 2002-188929 A 20020628  
 OTHER SOURCE(S): CASREACT 139:276817; MARPAT 139:276817  
 GI



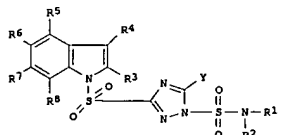
AB Indoles I (R1, R2 = H, Ph, substituted Ph; R3 = alkyl, halo, etc.; n = 0-4), useful as intermediates for agrochem. fungicides, are prepared by reduction of nitrophenylacetones II in the presence of reduction catalyst, acylation agent, and a base. Thus, hydrogenation of 4-fluoro-2-nitrophenylacetone in toluene in the presence of Ac<sub>2</sub>O, NaOAc and 5% Pd/C at 50° for 6 h gave 95.0% 6-fluoro-2-methylindole. The latter was converted in 2 steps to the fungicide 3-[(3-bromo-6-fluoro-2-methyl-1H-indol-1-yl)sulfonyl]-N,N-dimethyl-1H-1,2,4-triazole-1-sulfonamide.  
 IT 348635-87-OP  
 RL: AGR (Agricultural use); IMP (Industrial manufacture); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of indole derivs. as intermediates for fungicides)  
 RN 348635-87-0 CAPLUS  
 CN 1H-1,2,4-Triazole-1-sulfonamide, 3-[(3-bromo-6-fluoro-2-methyl-1H-indol-1-yl)sulfonyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



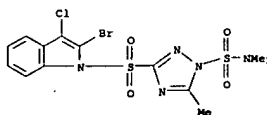
REFERENCE COUNT: 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 4 OF 12 CAPLUS COPYRIGHT 2005 ACS ON STN  
 ACCESSION NUMBER: 2001:514924 CAPLUS  
 DOCUMENT NUMBER: 135:92635  
 TITLE: Preparation of indolylsulfonyltriazole derivatives as agrochemical fungicides and agrochemicals  
 INVENTOR(S): Sato, Jun; Takeyama, Toshiaki; Yamagishi, Kazuhiro  
 PATENT ASSIGNEE(S): Nissan Chemical Industries, Ltd., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 12 pp.  
 CODEN: JKKXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

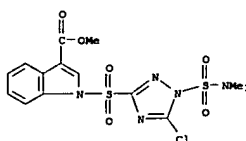
PATENT NO. KIND DATE APPLICATION NO. DATE  
 JP 2001192381 A2 20010717 JP 2000-2155 20000111  
 PRIORITY APPLN. INFO.: JP 2000-2155 20000111  
 OTHER SOURCE(S): MARPAT 135:92635  
 GI



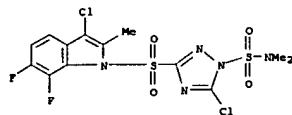
AB The title compds. I [R1, R2 = alkyl; further detail on R1 and R2 is given; Y = halo, etc.; R3, R4 = H, alkyl, etc.; R5 - R8 = H, alkyl, etc.] are prepared. Compds. of this invention at 1000 ppm gave ≥ 80% control of Phytophthora infestans.  
 IT 223456-89-1P 223456-93-7P 348575-04-2P  
 348575-05-3P 348575-06-4P  
 RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of indolylsulfonyltriazole derivs. as agrochem. fungicides)  
 RN 223456-89-1 CAPLUS  
 CN 1H-1,2,4-Triazole-1-sulfonamide, 3-[(2-bromo-3-chloro-1H-indol-1-yl)sulfonyl]-N,N,5-trimethyl- (9CI) (CA INDEX NAME)



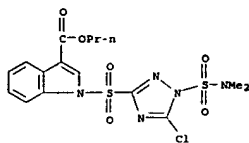
RN 223456-93-7 CAPLUS  
 CN 1H-Indole-3-carboxylic acid, 1-[[5-chloro-1-[(dimethylamino)sulfonyl]-1H-1,2,4-triazol-3-yl)sulfonyl]-, methyl ester (9CI) (CA INDEX NAME)



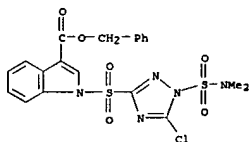
RN 348575-04-2 CAPLUS  
CN 1H-1,2,4-Triazole-1-sulfonamide, 5-chloro-3-[(3-chloro-6,7-difluoro-2-methyl-1H-indol-1-yl)sulfonyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



RN 348575-05-3 CAPLUS  
CN 1H-Indole-3-carboxylic acid, 1-[[5-chloro-1-[(dimethylamino)sulfonyl]-1H-1,2,4-triazol-3-yl]sulfonyl]-, propyl ester (9CI) (CA INDEX NAME)



RN 348575-06-4 CAPLUS  
CN 1H-Indole-3-carboxylic acid, 1-[[5-chloro-1-[(dimethylamino)sulfonyl]-1H-1,2,4-triazol-3-yl]sulfonyl]-, phenylmethyl ester (9CI) (CA INDEX NAME)



L6 ANSWER 5 OF 12 CAPLUS COPYRIGHT 2005 ACS on STN  
ACCESSION NUMBER: 2001:496315 CAPLUS  
DOCUMENT NUMBER: 135:92634  
TITLE: Preparation of triazoles as intermediates for agrochemical fungicides  
INVENTOR(S): Hamada, Toshimasa; Takeyama, Toshiaki  
PATENT ASSIGNEE(S): Nissan Chemical Industries, Ltd., Japan  
SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.  
CODEN: JKXKAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese

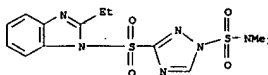
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001187786	A2	20010710	JP 2000-318044	20001018
PRIORITY APPLN. INFO.:			JP 1999-296136	A 19991019
OTHER SOURCE(S):			CASREACT 135:92634; MARPAT 135:92634	

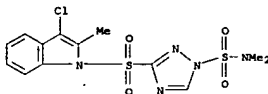
\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

AB Triazoles I [R1, R2 = C1-4 alkyl; R1R2 may form C4-6 alkylene, C3-3 alkyleneoxy-C2-3 alkylene; Y = H, halo, C1-8 alkyl, C1-6 alkoxy, C1-10 alkylthio, CN, CHO, (un)substituted benzylthio, (un)substituted Ph(CH2), etc.], useful as intermediates for 3-chlorosulfonyl-1-dialkylsulfamoyl-1,2,4-triazoles, are prepared by chlorination/oxidation of II (A = H, O; R1, R2, Y = same as above). II (A = O; R1, R2, Y = same as above) are prepared by condensation of disulfides III with XSO2NR1R2 (R1, R2 = same as above; X = halo). Reduction of II (A = O; R1, R2, Y = same as above) gives I (A = H; R1, R2, Y = same as above). Thus, Cl was supplied to a solution of bis[(N,N-dimethylsulfamoyl)-1,2,4-triazol-3-yl] disulfide in aqueous ACON at 55° to give 95% 1-(N,N-dimethylsulfamoyl)-3-chlorosulfonyl-1,2,4-triazole.  
IT 198349-82-5P 223454-73-7P 348635-87-0P  
RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of agrochem. fungicides via (chlorosulfonyl)(dimethylsulfamoyl) triazoles)

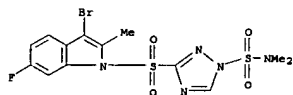
RN 198349-82-5 CAPLUS  
CN 1H-1,2,4-Triazole-1-sulfonamide, 3-[(2-ethyl-1H-benzimidazol-1-yl)sulfonyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



RN 223454-73-7 CAPLUS  
CN 1H-1,2,4-Triazole-1-sulfonamide, 3-[(3-chloro-2-methyl-1H-indol-1-yl)sulfonyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)

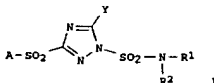


RN 348635-87-0 CAPLUS  
CN 1H-1,2,4-Triazole-1-sulfonamide, 3-[(3-bromo-6-fluoro-2-methyl-1H-indol-1-yl)sulfonyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



L6 ANSWER 6 OF 12 CAPLUS COPYRIGHT 2005 ACS on STN  
ACCESSION NUMBER: 2000:765440 CAPLUS  
DOCUMENT NUMBER: 133:321888  
TITLE: Preparation of indolylsulfonamides as agrochemical fungicides  
INVENTOR(S): Takeyama, Toshiaki; Hamada, Toshimasa; Takahashi, Hiroaki; Yamagishi, Kazuhiro; Nishioka, Masanori; Suzuki, Hiroyuki  
PATENT ASSIGNEE(S): Nissan Chemical Industries, Ltd., Japan  
SOURCE: Jpn. Kokai Tokkyo Koho, 12 pp.  
CODEN: JKXKAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000102781	A2	20001031	JP 1999-114706	19990422
PRIORITY APPLN. INFO.:			JP 1999-114706	19990422
OTHER SOURCE(S):			MARPAT 133:321888	

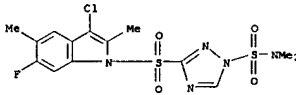


AB The title compds. I [R1, R2 = alkyl, etc.; Y = H, halo, etc.; A = indole rings (generic structures given)] are prepared 1-(N,N-Dimethylsulfamoyl)-3-(2-methyl-3-chloro-5,6-difluoroindol-1-yl)sulfonyl-1,2,4-triazole at 500 ppm gave complete control of Pseudoperonospora cubensis.  
IT 303042-58-2P 303042-59-3P 303042-60-6P  
303042-61-7P 303042-62-8P 303042-63-9P  
303042-64-0P 303042-65-1P 303042-66-2P  
303042-67-3P 303042-68-4P 303042-69-5P  
303042-70-6P 303042-76-6P

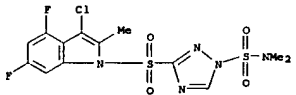
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(Preparation of indolylsulfonamides as agrochem. fungicides)

RN 303042-58-2 CAPLUS  
CN 1H-1,2,4-Triazole-1-sulfonamide, 3-[(3-chloro-5,6-difluoro-2-methyl-1H-indol-1-yl)sulfonyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)

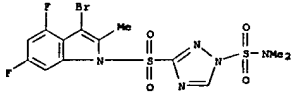
RN 303042-59-3 CAPLUS  
CN 1H-1,2,4-Triazole-1-sulfonamide, 3-[(3-chloro-6-fluoro-2,5-dimethyl-1H-indol-1-yl)sulfonyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



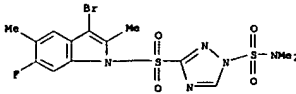
RN 303042-60-6 CAPLUS  
CN 1H-1,2,4-Triazole-1-sulfonamide, 3-[(3-chloro-4,6-difluoro-2-methyl-1H-indol-1-yl)sulfonyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



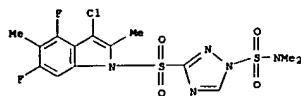
RN 303042-61-7 CAPLUS  
CN 1H-1,2,4-Triazole-1-sulfonamide, 3-[(3-bromo-4,6-difluoro-2-methyl-1H-indol-1-yl)sulfonyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



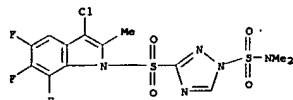
RN 303042-62-8 CAPLUS  
CN 1H-1,2,4-Triazole-1-sulfonamide, 3-[(3-bromo-6-fluoro-2,5-dimethyl-1H-indol-1-yl)sulfonyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



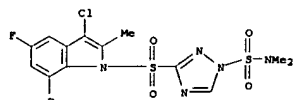
RN 303042-63-9 CAPLUS  
CN 1H-1,2,4-Triazole-1-sulfonamide, 3-[(3-chloro-4,6-difluoro-2,5-dimethyl-1H-indol-1-yl)sulfonyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



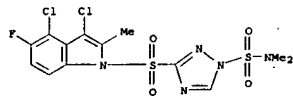
RN 303042-64-0 CAPLUS  
CN 1H-1,2,4-Triazole-1-sulfonamide, 3-[(3-chloro-5,6,7-trifluoro-2-methyl-1H-indol-1-yl)sulfonyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



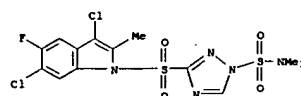
RN 303042-65-1 CAPLUS  
CN 1H-1,2,4-Triazole-1-sulfonamide, 3-[(3-chloro-5,7-difluoro-2-methyl-1H-indol-1-yl)sulfonyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



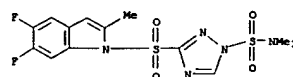
RN 303042-66-2 CAPLUS  
CN 1H-1,2,4-Triazole-1-sulfonamide, 3-[(3,4-dichloro-5-fluoro-2-methyl-1H-indol-1-yl)sulfonyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



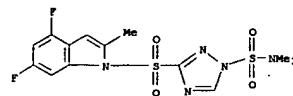
RN 303042-67-3 CAPLUS  
CN 1H-1,2,4-Triazole-1-sulfonamide, 3-[(3,6-dichloro-5-fluoro-2-methyl-1H-indol-1-yl)sulfonyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



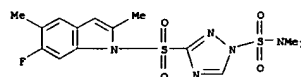
RN 303042-68-4 CAPLUS  
CN 1H-1,2,4-Triazole-1-sulfonamide, 3-[(5,6-difluoro-2-methyl-1H-indol-1-yl)sulfonyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



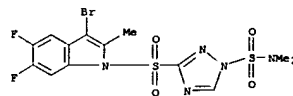
RN 303042-69-5 CAPLUS  
CN 1H-1,2,4-Triazole-1-sulfonamide, 3-[(4,6-difluoro-2-methyl-1H-indol-1-yl)sulfonyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



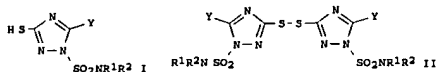
RN 303042-70-8 CAPLUS  
CN 1H-1,2,4-Triazole-1-sulfonamide, 3-[(6-fluoro-2,5-dimethyl-1H-indol-1-yl)sulfonyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



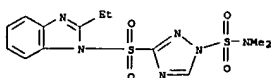
RN 303042-76-4 CAPLUS  
CN 1H-1,2,4-Triazole-1-sulfonamide, 3-[(3-bromo-5,6-difluoro-2-methyl-1H-indol-1-yl)sulfonyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



L6 ANSWER 7 OF 12 CAPLUS COPYRIGHT 2005 ACS on STN  
ACCESSION NUMBER: 1999:699106 CAPLUS  
DOCUMENT NUMBER: 131:310635  
TITLE: Preparation of triazole compounds as intermediates for fungicides  
INVENTOR(S): Hemada, Toshimasa; Takeyama, Toshiaki  
PATENT ASSIGNEE(S): Nissan Chemical Industries, Ltd., Japan  
SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.  
CODEN: JKXKAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:  
PATENT NO. KIND DATE APPLICATION NO. DATE  
JP 11302264 A2 19991102 JP 1998-111784 19980422  
PRIORITY APPLN. INFO.: JP 1998-111784 19980422  
OTHER SOURCE(S): CASREACT 131:310635; MARPAT 131:310635  
GI



AB Title compds. I and II (R1, R2 = alkyl; R1R2 = alkylene, alkyleneoxyalkylene; Y = H, halo, alkyl, benzylthio, etc.), useful as intermediates for fungicides, are prepared. Thus, reaction of bis[1,2,4-triazol-3-yl] disulfide with N,N-dimethylsulfamoyl chloride in DMF in the presence of K2CO3 gave 70% II (R1 = R2 = Me, Y = H), reaction of which with MeNHNH2 in CHCl3 gave 66% I (R1 = R2 = Me, Y = H).  
IT 198349-82-5P  
RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of triazole compds. as intermediates for fungicides)  
RN 198349-82-5 CAPLUS  
CN 1H-1,2,4-Triazole-1-sulfonamide, 3-[(2-ethyl-1H-benzimidazol-1-yl)sulfonyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



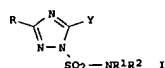
L6 ANSWER 8 OF 12 CAPLUS COPYRIGHT 2005 ACS on STN  
ACCESSION NUMBER: 1999:297416 CAPLUS  
DOCUMENT NUMBER: 130:292818  
TITLE: Sulfamoyl compounds useful as agricultural or horticultural fungicides  
INVENTOR(S): Takeyama, Toshiaki; Hamada, Toshimasa; Takahashi, Hiroaki; Watanabe, Junichi; Yamagishi, Kazuhiro; Nishioka, Masanori; Suzuki, Hiroyuki  
PATENT ASSIGNEE(S): Nissan Chemical Industries, Ltd., Japan  
SOURCE: PCT Int. Appl., 112 pp.  
CODEN: PIXXDJ

DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

APPLICANTS

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9921851	A1	19990506	WO 1998-048808	19981023
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RD, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KD, KZ, MD, RU, TJ, TM, RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2309051	AA	19990506	CA 1998-2309051	19981023
AU 9896470	A1	19990517	AU 1998-96470	19981023
AU 755846	B2	20021219		
EP 1031571	A1	20000830	EP 1998-950362	19981023
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
BR 9815211	A	20001017	BR 1998-15211	19981023
CN 1550499	A	20041201	CN 2004-10045950	19981023
US 6350748	B1	20020226	US 2000-096417	20000602
US 2002103243	A1	20020801	US 2001-964357	20010928
US 6620812	B2	20030916		
US 2004143116	A1	20040722	US 2003-614871	20030709
PRIORITY APPLN. INFO.: JP 1997-297416			JP 1997-297416	A 19971024
WO 1998-048808	W	19981023		
US 2000-529817	A1	20000602		
US 2001-964357	A1	20010928		

OTHER SOURCE(S): MARPAT 130:292818  
GI



AB Novel sulfamoyl compds. (I, where R is SO2A or COB; R1 and R2 each independently is C1-4 alkyl, or R1 and R2 in combination represent C4-6 alkylene or C4-6 alkyleneoxy; Y is H, halo, C1-8 alkyl, C1-8 alkoxy, C1-8 alkylthio, C1-8 haloalkyl, C1-8 haloalkoxy, or C1-8 haloalkylthio; A is a given heterocyclic group; B is a given heterocyclic group which is the same as or different from A) (preparative and formulation examples given) are useful as an agricultural or horticultural fungicides. Thus, 1-(N,N-dimethylsulfamoyl)-3-(2-methyl-3-chloroindol-1-yl)sulfonyl-1,2,4-triazole at 500 ppm gave 100% control of Pseudoperonospora cubensis in a pot experiment with cucumber.  
IT 223454-73-7P 223454-74-8P 223454-75-9P  
223454-76-0P 223454-77-1P  
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of sulfamoyl compds. as agricultural or horticultural fungicides)  
RN 223454-73-7 CAPLUS

Cc1c(Cl)c2ccccc2n1S(=O)(=O)c3ncnc3S(=O)(=O)NCCN(C)S(=O)(=O)c1ncnc2c1sc(S(=O)(=O)c3nc(C)c(Cl)c3c3ccccc33)n2CN(C)S(=O)(=O)c1nc(C(=O)c2ccc(C(F)(F)F)cc2)n1

4-phenylimidazole was stirred with Et<sub>3</sub>N and 3-chlorosulfonyl-1,2,4-triazole in THF at room temperature for 16 h to give 3-(6-phenyl-1,2,4-triazol-1-yl)-1,2,4-triazole which was stirred with N,N-dimethylsulfonyl fluoride and K<sub>2</sub>CO<sub>3</sub> in MeCN at room temperature for 16 h to give 1-(N,N-dimethylsulfonyl)-3-(4-phenylimidazol-1-ylsulfonyl)-1,2,4-triazole. The latter compound at 500 ppm controlled 100% *Pseudoperonospora cubensis* for cucumber seedlings.

IT	500 ppm controlled 100% waterborne	500 ppm controlled 100% waterborne
198349-72-3P	198349-73-0P	198349-74-5P
198349-75-6P	198349-76-7P	198349-77-0P
198349-78-9P	198349-79-0P	198349-80-3P
198349-81-4P	198349-82-5P	198349-83-6P
198349-84-7P	198349-85-0P	198349-86-9P
198349-87-0P	198349-88-1P	198349-89-4P
198349-92-7P	198349-94-9P	198349-96-1P
198349-98-3P	198350-00-4P	198350-02-9P
198350-03-7P	198350-05-9P	198350-06-0P
198350-07-1P	198350-08-2P	198350-09-0P
198350-10-4P	198350-11-7P	198350-12-0P
198350-13-9P	198350-15-2P	198350-18-9P
198350-16-2P	198350-17-3P	198350-18-0P
198350-19-5P	198350-20-0P	198350-21-9P
198350-22-0P	198350-23-1P	198350-24-2P
198350-25-3P	198350-26-4P	198350-27-5P
198350-28-6P	198350-29-7P	198350-30-0P
198350-31-1P	198350-32-8P	198350-33-1P
198350-34-4P	198350-35-5P	198350-36-6P
198350-37-7P	198350-38-8P	198350-39-9P

Cc1ccn(c1)S(=O)(=O)c2ncn(c2)S(=O)(=O)N(C)CCN(C)S(=O)(=O)c1ncnc1S(=O)(=O)c2ccccc2n3ccccc3Cc1c2ccccc2n1S(=O)(=O)c3ncnc3S(=O)(=O)NC

L6 ANSWER 9 OF 12 CAPLUS COPYRIGHT 2005 ACS on STN  
ACCESSION NUMBER: 1997:740220 CAPLUS  
DOCUMENT NUMBER: 127:346403  
TITLE: Preparation of sulfamoyl triazole derivatives as  
agricultural and horticultural fungicides  
INVENTOR(S): Takeyama, Toshaki; Utsunomiya, Toshihide; Watanabe,  
Junichi; Oya, Hiroshi; Furusato, Takashi  
PATENT ASSIGNEE(S): Nissen Chemical Industries, Ltd., Japan  
SOURCE: PCT Int. Appl., 139 pp.  
CODEN: P1XXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

$$A-SO_2-\begin{array}{c} \text{N} \\ \diagup \quad \diagdown \\ \text{C} \quad \text{C} \\ \diagdown \quad \diagup \\ \text{N} \end{array}-Y$$

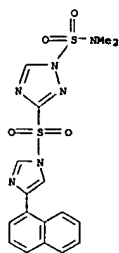
$$\text{SO}_2\text{NR}^1\text{R}^2 \quad \text{I}$$

$$Q= \begin{array}{c} \text{R}^3 \\ \diagup \quad \diagdown \\ \text{C} \quad \text{C} \\ \diagdown \quad \diagup \\ \text{R}^4 \quad \text{R}^5 \end{array}$$

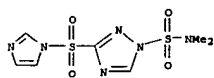
AB Novel sulfamoyltriazoole derive. Represented by general formula [I; R1 and R2 represent each alkyl or R1 and R2 form together alkylene; Y = H, alkyl, alkoxy, alkylthio, haloalkyl, haloalkylthio, benzylthio, (un)substituted Ph or benzyl; A represents a group represented by heterocyclic, e.g. O; R3 = H, alkyl, R4 = H, alkyl, C1-6 haloalkyl, C1-6 haloalkylthio, C1-6 alkoxy, C1-6 alkylthio, C3-10 alkylthio, C3-10 alkenylthio, C3-10 alkylnthio, C1-6 haloalkyl, C1-6 haloalkylthio, (un)substituted benzylthio, etc.; R4, R5 = H, halo, C1-6 alkyl, C1-6 haloalkyl, C1-6 alkoxy, C1-6 alkylthio, C1-6 alkenylthio, C1-6 alkylnthio, C3-10 alkylthio, C3-10 alkenylthio, C3-10 alkylnthio, C1-6 haloalkyl, C1-6 haloalkylthio, (un)substituted Ph or C1-6Ph, etc.; are prepared, Thus, alkyls, alkoxy, alkylthio, haloalkyl, haloalkylthio, benzylthio, C1-6 alkoxy, C1-6 alkylthio, C3-10 alkylthio, C3-10 alkenylthio, C3-10 alkylnthio, C1-6 haloalkyl, C1-6 haloalkylthio, (un)substituted Ph or C1-6Ph, etc.; are prepared, Thus,

CN(C)S(=O)(=O)c1ncnc(S(=O)(=O)c2cc(C#N)c(C#N)c2)c1CN(C)S(=O)(=O)c1ncnc(S(=O)(=O)n2cc3ccccc3c2Cl)c1CN(C)S(=O)(=O)c1ncnc1S(=O)(=O)n2cc(ccc2Cl)CN(C)S(=O)(=O)c1ncnc2c1s(=O)(=O)n2-c3ccccc3OC

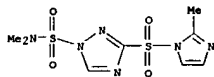
RN 196349-75-6 CAPLUS  
CN 1H-1,2,4-Triazole-1-sulfonamide, N,N-dimethyl-3-[[4-(1-naphthalenyl)-1H-imidazol-1-yl]sulfonyl]- (9CI) (CA INDEX NAME)



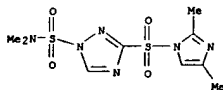
RN 198349-76-7 CAPLUS  
CN 1H-1,2,4-Triazole-1-sulfonamide, 3-[(1H-imidazol-1-yl)sulfonyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



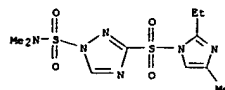
RN 198349-77-8 CAPLUS  
CN 1H-1,2,4-Triazole-1-sulfonamide, N,N-dimethyl-3-[(2-methyl-1H-imidazol-1-yl)sulfonyl]- (9CI) (CA INDEX NAME)



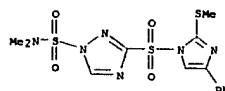
RN 198349-78-9 CAPLUS  
CN 1H-1,2,4-Triazole-1-sulfonamide, 3-[(2,4-dimethyl-1H-imidazol-1-yl)sulfonyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



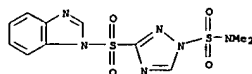
RN 198349-79-0 CAPLUS  
CN 1H-1,2,4-Triazole-1-sulfonamide, 3-[(2-ethyl-4-methyl-1H-imidazol-1-yl)sulfonyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



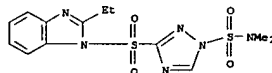
RN 198349-80-3 CAPLUS  
CN 1H-1,2,4-Triazole-1-sulfonamide, N,N-dimethyl-3-[[2-(methylthio)-4-phenyl-1H-imidazol-1-yl]sulfonyl]- (9CI) (CA INDEX NAME)



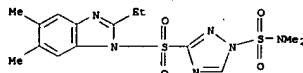
RN 198349-81-4 CAPLUS  
CN 1H-1,2,4-Triazole-1-sulfonamide, 3-[(1H-benzimidazol-1-yl)sulfonyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



RN 198349-82-5 CAPLUS  
CN 1H-1,2,4-Triazole-1-sulfonamide, 3-[(2-ethyl-1H-benzimidazol-1-yl)sulfonyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)

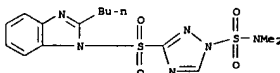


RN 198349-83-6 CAPLUS  
CN 1H-1,2,4-Triazole-1-sulfonamide, 3-[(2-ethyl-5,6-dimethyl-1H-benzimidazol-1-yl)sulfonyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)

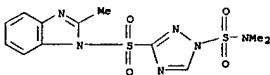


RN 198349-84-7 CAPLUS

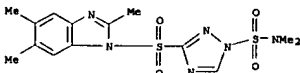
CN 1H-1,2,4-Triazole-1-sulfonamide, 3-[(2-butyl-1H-benzimidazol-1-yl)sulfonyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



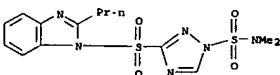
RN 198349-85-8 CAPLUS  
CN 1H-1,2,4-Triazole-1-sulfonamide, N,N-dimethyl-3-[(2-methyl-1H-benzimidazol-1-yl)sulfonyl]- (9CI) (CA INDEX NAME)



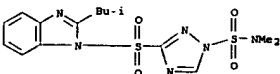
RN 198349-86-9 CAPLUS  
CN 1H-1,2,4-Triazole-1-sulfonamide, N,N-dimethyl-3-[(2,5,6-trimethyl-1H-benzimidazol-1-yl)sulfonyl]- (9CI) (CA INDEX NAME)



RN 198349-87-0 CAPLUS  
CN 1H-1,2,4-Triazole-1-sulfonamide, N,N-dimethyl-3-[(2-propyl-1H-benzimidazol-1-yl)sulfonyl]- (9CI) (CA INDEX NAME)

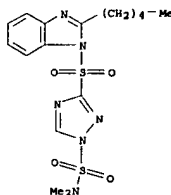


RN 198349-88-1 CAPLUS  
CN 1H-1,2,4-Triazole-1-sulfonamide, N,N-dimethyl-3-[[2-(2-methylpropyl)-1H-benzimidazol-1-yl]sulfonyl]- (9CI) (CA INDEX NAME)

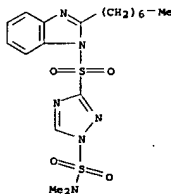


RN 198349-90-5 CAPLUS

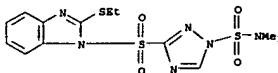
CN 1H-1,2,4-Triazole-1-sulfonamide, N,N-dimethyl-3-[(2-pentyl-1H-benzimidazol-1-yl)sulfonyl]- (9CI) (CA INDEX NAME)



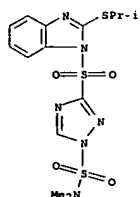
RN 198349-92-7 CAPLUS  
CN 1H-1,2,4-Triazole-1-sulfonamide, 3-[(2-heptyl-1H-benzimidazol-1-yl)sulfonyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



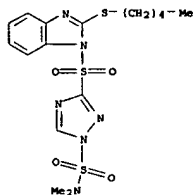
RN 198349-94-9 CAPLUS  
CN 1H-1,2,4-Triazole-1-sulfonamide, 3-[[2-(ethylthio)-1H-benzimidazol-1-yl]sulfonyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



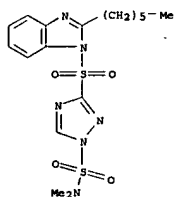
RN 198349-96-1 CAPLUS  
CN 1H-1,2,4-Triazole-1-sulfonamide, N,N-dimethyl-3-[[2-[(1-methylethyl)thio]-1H-benzimidazol-1-yl]sulfonyl]- (9CI) (CA INDEX NAME)



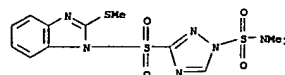
RN 198349-98-3 CAPLUS  
CN 1H-1,2,4-Triazole-1-sulfonamide, N,N-dimethyl-3-[[2-(pentylthio)-1H-benzimidazol-1-yl]sulfonyl]- (9CI) (CA INDEX NAME)



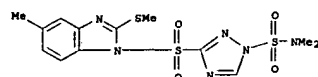
RN 198350-00-4 CAPLUS  
CN 1H-1,2,4-Triazole-1-sulfonamide, 3-[[2-(hexyl-1H-benzimidazol-1-yl)sulfonyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



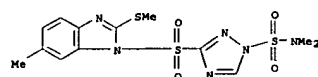
RN 198350-02-6 CAPLUS  
CN 1H-1,2,4-Triazole-1-sulfonamide, N,N-dimethyl-3-[[2-(methylthio)-1H-benzimidazol-1-yl]sulfonyl]- (9CI) (CA INDEX NAME)



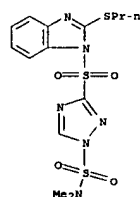
RN 198350-03-7 CAPLUS  
CN 1H-1,2,4-Triazole-1-sulfonamide, N,N-dimethyl-3-[[5-methyl-2-(methylthio)-1H-benzimidazol-1-yl]sulfonyl]- (9CI) (CA INDEX NAME)



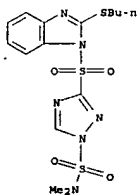
RN 198350-05-9 CAPLUS  
CN 1H-1,2,4-Triazole-1-sulfonamide, N,N-dimethyl-3-[[6-methyl-2-(methylthio)-1H-benzimidazol-1-yl]sulfonyl]- (9CI) (CA INDEX NAME)



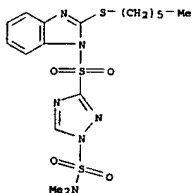
RN 198350-06-0 CAPLUS  
CN 1H-1,2,4-Triazole-1-sulfonamide, N,N-dimethyl-3-[[2-(propylthio)-1H-benzimidazol-1-yl]sulfonyl]- (9CI) (CA INDEX NAME)



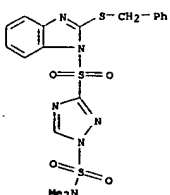
RN 198350-07-1 CAPLUS  
CN 1H-1,2,4-Triazole-1-sulfonamide, 3-[[2-(butylthio)-1H-benzimidazol-1-yl]sulfonyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



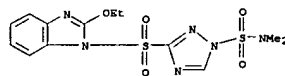
RN 198350-08-2 CAPLUS  
CN 1H-1,2,4-Triazole-1-sulfonamide, 3-[[2-(hexylthio)-1H-benzimidazol-1-yl]sulfonyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



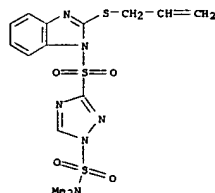
RN 198350-09-3 CAPLUS  
CN 1H-1,2,4-Triazole-1-sulfonamide, N,N-dimethyl-3-[[2-((phenylmethyl)thio)-1H-benzimidazol-1-yl]sulfonyl]- (9CI) (CA INDEX NAME)



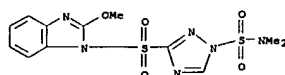
RN 198350-10-6 CAPLUS  
CN 1H-1,2,4-Triazole-1-sulfonamide, 3-[[2-(ethoxy-1H-benzimidazol-1-yl]sulfonyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



RN 198350-11-7 CAPLUS  
CN 1H-1,2,4-Triazole-1-sulfonamide, N,N-dimethyl-3-[[2-(2-propenylthio)-1H-benzimidazol-1-yl]sulfonyl]- (9CI) (CA INDEX NAME)

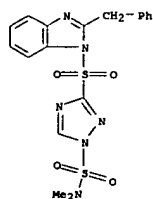


RN 198350-12-8 CAPLUS  
CN 1H-1,2,4-Triazole-1-sulfonamide, 3-[[2-(2-methoxy-1H-benzimidazol-1-yl]sulfonyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)

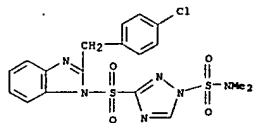


RN 198350-13-9 CAPLUS  
CN 1H-1,2,4-Triazole-1-sulfonamide, N,N-dimethyl-3-[[2-(phenylmethyl)-1H-benzimidazol-1-yl]sulfonyl]- (9CI) (CA INDEX NAME)

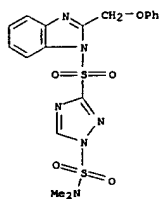




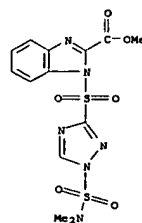
RN 198350-14-0 CAPLUS  
CN 1H-1,2,4-Triazole-1-sulfonamide, 3-[[2-[[4-chlorophenyl)methyl]-1H-benzimidazol-1-yl]sulfonyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



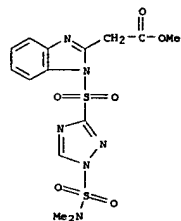
RN 198350-15-1 CAPLUS  
CN 1H-1,2,4-Triazole-1-sulfonamide, N,N-dimethyl-3-[[2-(phenoxy)methyl]-1H-benzimidazol-1-yl]sulfonyl- (9CI) (CA INDEX NAME)



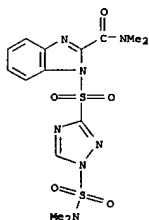
RN 198350-16-2 CAPLUS  
CN 1H-Benzimidazole-2-carboxylic acid, 1-[[1-[[dimethylamino)sulfonyl]-1H-1,2,4-triazol-3-yl]sulfonyl]-, methyl ester (9CI) (CA INDEX NAME)



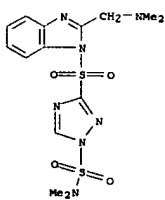
RN 198350-17-3 CAPLUS  
CN 1H-Benzimidazole-2-acetic acid, 1-[[1-[[dimethylamino)sulfonyl]-1H-1,2,4-triazol-3-yl]sulfonyl]-, methyl ester (9CI) (CA INDEX NAME)



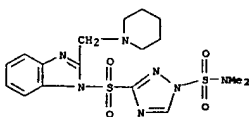
RN 198350-18-4 CAPLUS  
CN 1H-Benzimidazole-2-carboxamide, 1-[[1-[[dimethylamino)sulfonyl]-1H-1,2,4-triazol-3-yl]sulfonyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



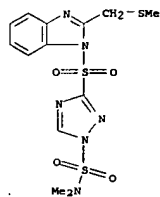
RN 198350-19-5 CAPLUS  
CN 1H-1,2,4-Triazole-1-sulfonamide, 3-[[2-[[dimethylamino)methyl]-1H-benzimidazol-1-yl]sulfonyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



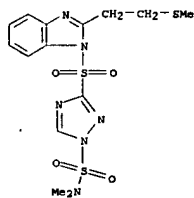
RN 198350-20-8 CAPLUS  
CN 1H-1,2,4-Triazole-1-sulfonamide, N,N-dimethyl-3-[[2-(1-piperidinyl)methyl]-1H-benzimidazol-1-yl]sulfonyl- (9CI) (CA INDEX NAME)



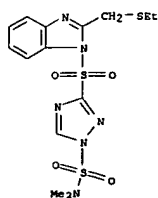
RN 198350-21-9 CAPLUS  
CN 1H-1,2,4-Triazole-1-sulfonamide, N,N-dimethyl-3-[[2-[[methylthio)methyl]-1H-benzimidazol-1-yl]sulfonyl]- (9CI) (CA INDEX NAME)



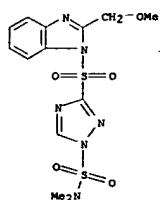
RN 198350-22-0 CAPLUS  
CN 1H-1,2,4-Triazole-1-sulfonamide, N,N-dimethyl-3-[[2-[[methylthio)ethyl]-1H-benzimidazol-1-yl]sulfonyl]- (9CI) (CA INDEX NAME)



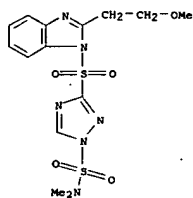
RN 198350-23-1 CAPLUS  
CN 1H-1,2,4-Triazole-1-sulfonamide, 3-[[2-[[ethylthio)methyl]-1H-benzimidazol-1-yl]sulfonyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



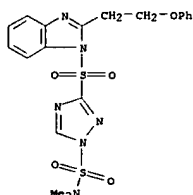
RN 198350-24-2 CAPLUS  
CN 1H-1,2,4-Triazole-1-sulfonamide, 3-[[2-[[methoxy)methyl]-1H-benzimidazol-1-yl]sulfonyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



RN 198350-25-3 CAPLUS  
CN 1H-1,2,4-Triazole-1-sulfonamide, 3-[[2-(2-methoxyethyl)-1H-benzimidazol-1-yl]sulfonyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)

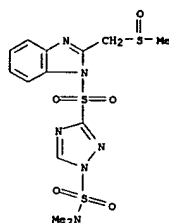


RN 198350-26-4 CAPLUS  
CN 1H-1,2,4-Triazole-1-sulfonamide, N,N-dimethyl-3-[[2-(2-phenoxyethyl)-1H-benzimidazol-1-yl]sulfonyl]- (9CI) (CA INDEX NAME)

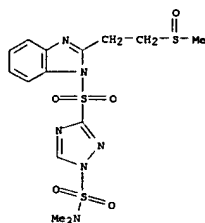


RN 198350-27-5 CAPLUS  
CN 1H-1,2,4-Triazole-1-sulfonamide, N,N-dimethyl-3-[[2-

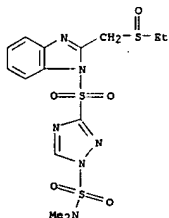
[(methylsulfonyl)methyl]-1H-benzimidazol-1-yl]sulfonyl]- (9CI) (CA INDEX NAME)



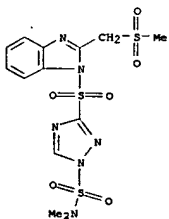
RN 198350-28-6 CAPLUS  
CN 1H-1,2,4-Triazole-1-sulfonamide, N,N-dimethyl-3-[[2-[(methylsulfonyl)ethyl]-1H-benzimidazol-1-yl]sulfonyl]- (9CI) (CA INDEX NAME)



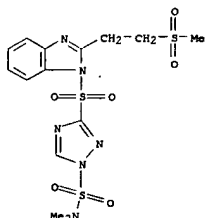
RN 198350-29-7 CAPLUS  
CN 1H-1,2,4-Triazole-1-sulfonamide, 3-[[2-[(ethylsulfonyl)methyl]-1H-benzimidazol-1-yl]sulfonyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



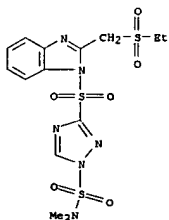
RN 198350-30-0 CAPLUS  
CN 1H-1,2,4-Triazole-1-sulfonamide, N,N-dimethyl-3-[[2-[(methylsulfonyl)methyl]-1H-benzimidazol-1-yl]sulfonyl]- (9CI) (CA INDEX NAME)



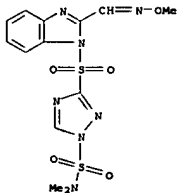
RN 198350-31-1 CAPLUS  
CN 1H-1,2,4-Triazole-1-sulfonamide, N,N-dimethyl-3-[[2-[(methylsulfonyl)ethyl]-1H-benzimidazol-1-yl]sulfonyl]- (9CI) (CA INDEX NAME)



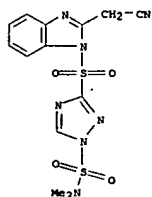
RN 198350-32-2 CAPLUS  
CN 1H-1,2,4-Triazole-1-sulfonamide, 3-[[2-[(ethylsulfonyl)methyl]-1H-benzimidazol-1-yl]sulfonyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



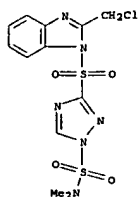
RN 198350-33-3 CAPLUS  
CN 1H-1,2,4-Triazole-1-sulfonamide, 3-[[2-[(methoxyimino)methyl]-1H-benzimidazol-1-yl]sulfonyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



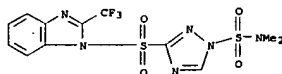
RN 198350-34-4 CAPLUS  
CN 1H-1,2,4-Triazole-1-sulfonamide, 3-[[2-(cyanomethyl)-1H-benzimidazol-1-yl]sulfonyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



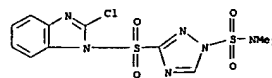
RN 198350-35-5 CAPLUS  
CN 1H-1,2,4-Triazole-1-sulfonamide, 3-[[2-(chloromethyl)-1H-benzimidazol-1-yl]sulfonyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



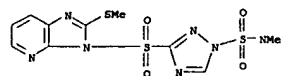
RN 198350-36-6 CAPLUS  
CN 1H-1,2,4-Triazole-1-sulfonamide, N,N-dimethyl-3-[[2-(trifluoromethyl)-1H-benzimidazol-1-yl]sulfonyl]- (9CI) (CA INDEX NAME)



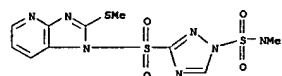
RN 198350-37-7 CAPLUS  
CN 1H-1,2,4-Triazole-1-sulfonamide, 3-[[2-chloro-1H-benzimidazol-1-yl]sulfonyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



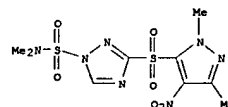
RN 198350-38-8 CAPLUS  
CN 1H-1,2,4-Triazole-1-sulfonamide, N,N-dimethyl-3-[[2-(methylthio)-3H-imidazo[4,5-b]pyridin-3-yl]sulfonyl]- (9CI) (CA INDEX NAME)



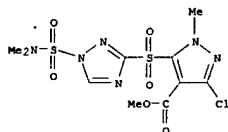
RN 198350-39-9 CAPLUS  
CN 1H-1,2,4-Triazole-1-sulfonamide, N,N-dimethyl-3-[[2-(methylthio)-1H-imidazo[4,5-b]pyridin-1-yl]sulfonyl]- (9CI) (CA INDEX NAME)



RN 198350-46-8 CAPLUS  
CN 1H-1,2,4-Triazole-1-sulfonamide, 3-[[1,3-dimethyl-4-nitro-1H-pyrazol-5-yl]sulfonyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)

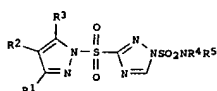


RN 198350-47-9 CAPLUS  
CN 1H-Pyrazole-4-carboxylic acid, 3-chloro-5-[[1-[[dimethylamino)sulfonyl]-1H-1,2,4-triazol-3-yl]sulfonyl]-1-methyl-, methyl ester (9CI) (CA INDEX NAME)



L6 ANSWER 10 OF 12 CAPLUS COPYRIGHT 2005 ACS ON STN  
ACCESSION NUMBER: 1996:11003 CAPLUS  
DOCUMENT NUMBER: 124:55958  
TITLE: Preparation of sulfamoyl triazole derivatives as agrochemical fungicides  
INVENTOR(S): Usui, Yoshihiro; Tautami, Yoshimi; Go, Atsushi; Yamada, Seiichiro  
PATENT ASSIGNER(S): Mitsubishi Kagaku KK, Japan  
SOURCE: Jpn. Kokai Tokkyo Koho, 11 pp.  
CODEN: JKKXAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 07215971	A2	19950815	JP 1994-11643	19940203
PRIORITY APPL. INFO.:			JP 1994-11643	19940203
OTHER SOURCE(S):	MARPAT	124:55958		



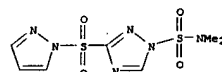
AB The title compds. I [R1 - R3 = H, halo, etc.; R4, R5 = alkyl; or R4R5 = (alkyl-substituted) alkylene] are prepared I [R1 = tert-butyl; R2 = H; R3 = R4 = R5 = methyl] (II) was prepared in 2 steps from 3-tert-butyl-5-methylpyrazole and 3-chlorosulfonyl-1,2,4-triazole. II at 200 ppm gave 2.95% control of Pyricularia oryzae.

IT 171967-76-3P 171967-77-4P 171967-78-5P  
171967-79-6P 171967-80-9P 171967-81-0P  
171967-82-1P 171967-83-2P

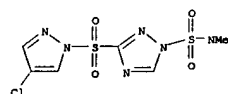
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(Preparation of sulfamoyl triazole derivs. as agrochem. fungicides)

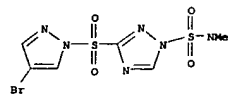
RN 171967-76-3 CAPLUS  
CN 1H-1,2,4-Triazole-1-sulfonamide, N,N-dimethyl-3-[[1H-pyrazol-1-yl]sulfonyl]- (9CI) (CA INDEX NAME)



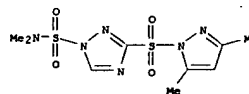
RN 171967-77-4 CAPLUS  
CN 1H-1,2,4-Triazole-1-sulfonamide, 3-[[4-chloro-1H-pyrazol-1-yl]sulfonyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



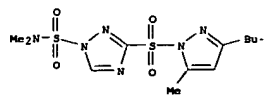
RN 171967-78-5 CAPLUS  
CN 1H-1,2,4-Triazole-1-sulfonamide, 3-[[4-bromo-1H-pyrazol-1-yl]sulfonyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



RN 171967-79-6 CAPLUS  
CN 1H-1,2,4-Triazole-1-sulfonamide, 3-[[3,5-dimethyl-1H-pyrazol-1-yl]sulfonyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)

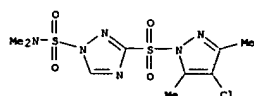


RN 171967-80-9 CAPLUS  
CN 1H-1,2,4-Triazole-1-sulfonamide, 3-[[3-(1,1-dimethylethyl)-5-methyl-1H-pyrazol-1-yl]sulfonyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



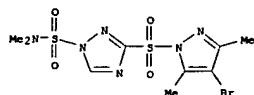
RN 171967-81-0 CAPLUS

CN 1H-1,2,4-Triazole-1-sulfonamide, 3-[(4-chloro-3,5-dimethyl-1H-pyrazol-1-yl)sulfonyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



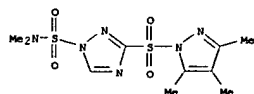
RN 171967-82-1 CAPLUS

CN 1H-1,2,4-Triazole-1-sulfonamide, 3-[(4-bromo-3,5-dimethyl-1H-pyrazol-1-yl)sulfonyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



RN 171967-83-2 CAPLUS

CN 1H-1,2,4-Triazole-1-sulfonamide, N,N-dimethyl-3-[(3,4,5-trimethyl-1H-pyrazol-1-yl)sulfonyl]- (9CI) (CA INDEX NAME)



L6 ANSWER 11 OF 12 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1995:513660 CAPLUS

DOCUMENT NUMBER: 122:265382

TITLE: Preparation of sulfamoyl triazole derivatives as agrochemical fungicides

INVENTOR(S): Kirio, Yoshe; Yamada, Seiichiro; Usui, Yoshihiro;

Tsutsumi, Yoshimi; Go, Atsushi

PATENT ASSIGNEE(S): Mitsubishi Kagaku KK, Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 26 pp.

CODEN: JKKXAP

DOCUMENT TYPE: Patent

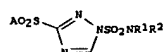
LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 07002803	A2	19950106	JP 1993-144708	19930616
PRIORITY APPLN. INFO.:			JP 1993-144708	19930616
OTHER SOURCE(S):	MARPAT	122:265382		

GI



AB The title compds. I (R1, R2 = alkyl, or R1R2 = (alkyl-substituted) alkylene; A = (un)substituted aryl) are prepared I [A = phenyl; R1 = R2 = methyl] at 200 ppm gave  $\geq 95\%$  control of *Pseudoperonospora cubensis*. The fungicidal activity of 15 compds. of this invention are given in a table in this document.

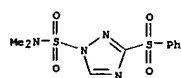
IT 154084-27-2P 154084-28-3P 154084-29-4P  
154084-30-7P 154084-31-6P 154084-32-9P  
154084-33-0P 154084-34-1P 154084-35-2P  
154084-36-3P 154084-37-4P 154084-38-5P  
154084-39-6P 154084-40-9P 154084-46-5P  
162980-53-2P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(Preparation of sulfamoyl triazole deriva. as agrochem. fungicides)

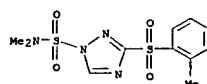
RN 154084-27-2 CAPLUS

CN 1H-1,2,4-Triazole-1-sulfonamide, N,N-dimethyl-3-(phenylsulfonyl)- (9CI) (CA INDEX NAME)



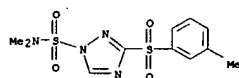
RN 154084-28-3 CAPLUS

CN 1H-1,2,4-Triazole-1-sulfonamide, N,N-dimethyl-3-[(2-methylphenyl)sulfonyl]- (9CI) (CA INDEX NAME)



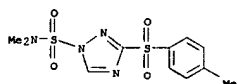
RN 154084-29-4 CAPLUS

CN 1H-1,2,4-Triazole-1-sulfonamide, N,N-dimethyl-3-[(3-methylphenyl)sulfonyl]- (9CI) (CA INDEX NAME)



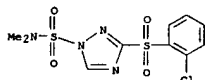
RN 154084-30-7 CAPLUS

CN 1H-1,2,4-Triazole-1-sulfonamide, N,N-dimethyl-3-[(4-methylphenyl)sulfonyl]- (9CI) (CA INDEX NAME)



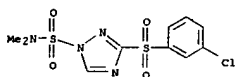
RN 154084-31-8 CAPLUS

CN 1H-1,2,4-Triazole-1-sulfonamide, 3-[(2-chlorophenyl)sulfonyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



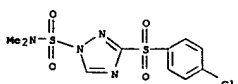
RN 154084-32-9 CAPLUS

CN 1H-1,2,4-Triazole-1-sulfonamide, 3-[(3-chlorophenyl)sulfonyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



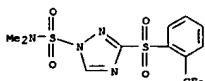
RN 154084-33-0 CAPLUS

CN 1H-1,2,4-Triazole-1-sulfonamide, 3-[(4-chlorophenyl)sulfonyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



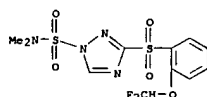
RN 154084-34-1 CAPLUS

CN 1H-1,2,4-Triazole-1-sulfonamide, N,N-dimethyl-3-[(2,4,6-trifluoromethyl)phenyl)sulfonyl]- (9CI) (CA INDEX NAME)



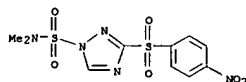
RN 154084-35-2 CAPLUS

CN 1H-1,2,4-Triazole-1-sulfonamide, 3-[(2-(difluoromethoxy)phenyl)sulfonyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



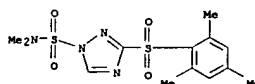
RN 154084-36-3 CAPLUS

CN 1H-1,2,4-Triazole-1-sulfonamide, N,N-dimethyl-3-[(2,4,6-trimethylphenyl)sulfonyl]- (9CI) (CA INDEX NAME)



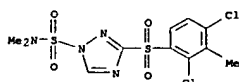
RN 154084-37-4 CAPLUS

CN 1H-1,2,4-Triazole-1-sulfonamide, N,N-dimethyl-3-[(2,4,6-trimethylphenyl)sulfonyl]- (9CI) (CA INDEX NAME)



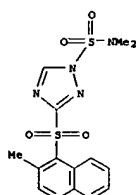
RN 154084-38-5 CAPLUS

CN 1H-1,2,4-Triazole-1-sulfonamide, 3-[(2,4-dichloro-3-methylphenyl)sulfonyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)

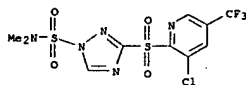


RN 154084-39-6 CAPLUS

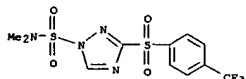
CN 1H-1,2,4-Triazole-1-sulfonamide, N,N-dimethyl-3-[(2-methyl-1-naphthalenyl)sulfonyl]- (9CI) (CA INDEX NAME)



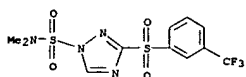
RN 154084-40-9 CAPLUS  
CN 1H-1,2,4-Triazole-1-sulfonamide, 3-[[3-chloro-5-(trifluoromethyl)-2-pyridinyl]sulfonyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



RN 154084-46-5 CAPLUS  
CN 1H-1,2,4-Triazole-1-sulfonamide, N,N-dimethyl-3-[[4-(trifluoromethyl)phenyl]sulfonyl]- (9CI) (CA INDEX NAME)



RN 162580-53-2 CAPLUS  
CN 1H-1,2,4-Triazole-1-sulfonamide, N,N-dimethyl-3-[[3-(trifluoromethyl)phenyl]sulfonyl]- (9CI) (CA INDEX NAME)

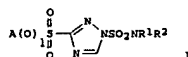


L6 ANSWER 12 OF 12 CAPLUS COPYRIGHT 2005 ACS on STN  
ACCESSION NUMBER: 1994:245121 CAPLUS  
DOCUMENT NUMBER: 120:245121  
TITLE: Preparation of sulfamoyl triazole derivatives as agrochemical microbicides  
INVENTOR(S): Usui, Yoshihiro; Tautsumi, Yoshimi; Goh, Atsushi; Yamada, Seichiro

PATENT ASSIGNEE(S): Mitsubishi Petrochemical Co., Ltd., Japan  
SOURCE: PCT Int. Appl., 68 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9401419	A1	19940120	WO 1993-JP939	19930708
W: AU, BG, CA, RU, UA, US				
RM: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
JP 06032785	A2	19940208	JP 1992-186869	19920714
AU 9345138	A1	19940131	AU 1993-45138	19930708
AU 662651	B2	19950907		
EP 603415	A1	19940629	EP 1993-914971	19930708
R: DE, ES, FR, IT, PT				
CA 2116220	C	19970204	CA 1993-2116220	19930708
US 5527818	A	19960618	US 1994-199218	19940303
PRIORITY APPLN. INFO.:			JP 1992-186869	A 19920714
			WO 1993-JP939	A 19930708

OTHER SOURCE(S): MARPAT 120:245121  
GI



AB The title compds. I (R1, R2 = alkyl, or R1 and R2 may be combined together to represent C3-C6 alkylene which may be substituted by lower alkyl; A = substituted aryl; 1 = 0 - 1) are prepared I have prophylactic and therapeutic effects against various disease damages even in an extremely low dose without inflicting any chemical injury to crops. I (A = Ph; 1 = 1; R1 = R2 = Me) at 200 ppm gave 295% control of Pseudoperonospora cubensis spores. Two compds. I at 200 ppm gave 295% control of Phytophthora infestans spores. Formulations containing I are given.

IT 154084-27-2P 154084-28-3P 154084-29-4P

154084-30-7P 154084-31-8P 154084-32-9P

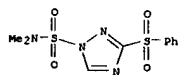
154084-33-0P 154084-34-1P 154084-35-2P

154084-36-3P 154084-37-4P 154084-38-5P

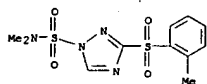
154084-39-6P 154084-40-9P 154084-46-5P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(Preparation of, as agrochem. microbicide)

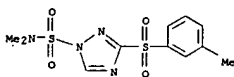
RN 154084-27-2 CAPLUS  
CN 1H-1,2,4-Triazole-1-sulfonamide, N,N-dimethyl-3-[[4-(trifluoromethyl)phenyl]sulfonyl]- (9CI) (CA INDEX NAME)



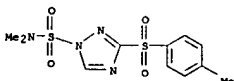
RN 154084-28-3 CAPLUS  
CN 1H-1,2,4-Triazole-1-sulfonamide, N,N-dimethyl-3-[[2-(methylphenyl)sulfonyl]- (9CI) (CA INDEX NAME)



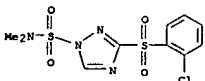
RN 154084-29-4 CAPLUS  
CN 1H-1,2,4-Triazole-1-sulfonamide, N,N-dimethyl-3-[[3-methylphenyl]sulfonyl]- (9CI) (CA INDEX NAME)



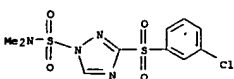
RN 154084-30-7 CAPLUS  
CN 1H-1,2,4-Triazole-1-sulfonamide, N,N-dimethyl-3-[[4-methylphenyl]sulfonyl]- (9CI) (CA INDEX NAME)



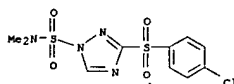
RN 154084-31-8 CAPLUS  
CN 1H-1,2,4-Triazole-1-sulfonamide, 3-[[2-(difluoromethoxy)phenyl]sulfonyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



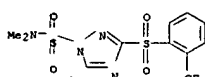
RN 154084-32-9 CAPLUS  
CN 1H-1,2,4-Triazole-1-sulfonamide, 3-[[4-chlorophenyl]sulfonyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



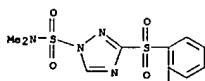
RN 154084-33-0 CAPLUS  
CN 1H-1,2,4-Triazole-1-sulfonamide, 3-[[4-chlorophenyl]sulfonyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



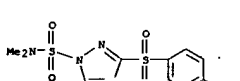
RN 154084-34-1 CAPLUS  
CN 1H-1,2,4-Triazole-1-sulfonamide, N,N-dimethyl-3-[[2-(trifluoromethyl)phenyl]sulfonyl]- (9CI) (CA INDEX NAME)



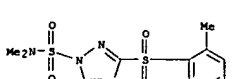
RN 154084-35-2 CAPLUS  
CN 1H-1,2,4-Triazole-1-sulfonamide, 3-[[2-(difluoromethoxy)phenyl]sulfonyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



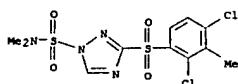
RN 154084-36-3 CAPLUS  
CN 1H-1,2,4-Triazole-1-sulfonamide, N,N-dimethyl-3-[[4-nitrophenyl]sulfonyl]- (9CI) (CA INDEX NAME)



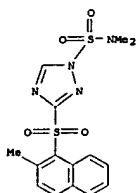
RN 154084-37-4 CAPLUS  
CN 1H-1,2,4-Triazole-1-sulfonamide, N,N-dimethyl-3-[[2,4,6-trimethylphenyl]sulfonyl]- (9CI) (CA INDEX NAME)



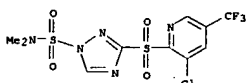
RN 154084-38-5 CAPLUS  
CN 1H-1,2,4-Triazole-1-sulfonamide, 3-[[2,4-dichloro-3-methylphenyl]sulfonyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



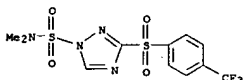
RN 154084-39-6 CAPLUS  
CN 1H-1,2,4-Triazole-1-sulfonamide, N,N-dimethyl-3-[[2-methyl-1-naphthalenyl)sulfonyl]- (9CI) (CA INDEX NAME)



RN 154084-40-9 CAPLUS  
CN 1H-1,2,4-Triazole-1-sulfonamide, 3-[[3-chloro-5-(trifluoromethyl)-2-pyridinyl)sulfonyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



RN 154084-46-5 CAPLUS  
CN 1H-1,2,4-Triazole-1-sulfonamide, N,N-dimethyl-3-[[4-(trifluoromethyl)phenyl)sulfonyl]- (9CI) (CA INDEX NAME)



=> log hold  
COST IN U.S. DOLLARS  
FULL ESTIMATED COST

SINCE FILE	TOTAL
ENTRY	SESSION
61.62	225.31

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
CA SUBSCRIBER PRICE	ENTRY	SESSION
	-8.76	-8.76

SESSION WILL BE HELD FOR 60 MINUTES  
STN INTERNATIONAL SESSION SUSPENDED AT 10:59:46 ON 01 DEC 2005